#### DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

# WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-013235 Address: 333 Burma Road **Date Inspected:** 08-Mar-2010

City: Oakland, CA 94607

**OSM Arrival Time:** 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

**CWI Name: CWI Present:** Yes Du Zhi Qun No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A N/A **Electrode to specification:** Yes No **Weld Procedures Followed:** Yes No N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:** 

34-0006 **Bridge No: Component:** Tower

## **Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Shailesh Gaikwad was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

This QA Inspector observed the following work in progress:

**BAY 10** 

This QA Inspector observed ZPMC qualified welding personnel identified as 052075 Perform Flux Core Arc Welding (FCAW) on Skirt Plate, The joint identified as, SSD1-A434-D/D-25,32. ZPMC QC Identified as Jiang Xiang Bo. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2332-Tc-P4-F. For more information see below attached photo.

This QA Inspector observed ZPMC qualified welding personnel identified as 040252. Perform Submerged Arc Welding (SAW) on Tower Grillage beam plate. Joint identified SSD1-TL5-1B-F-21A, ZPMC QC Identified as Yu Zhi Lai. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3221-B-U3c-S-1.

#### Repair Welding

This QA Inspector observed ZPMC qualified welding personnel identified as 040582, 052930. Perform Shielded Metal Arc Welding (SMAW) on North Tower lift 5 Grilled Stiffener. Buttering up to 15mm. Joint identified, as NSD1-TL5-3A-F-TD5-9. ZPMC CWI Identified as Du Zhi Qun. With Temporary welding repair report

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WRR-T-WR3083, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-485-SMAW-2G (2F)-Repair-1. For more information see below attached photo.

## Repair Welding

This QA Inspector observed ZPMC qualified welding personnel identified as 068501. Perform Flux Core Arc Welding (FCAW) on Shearing plate, ED1-A27. Buttering up to3~10mm. ZPMC QC Identified as Li Peng Fei, With Temporary welding repair report. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-2G (2F)-Repair. For more information see below attached photo.

#### **BAY 11**

This QA Inspector observed ZPMC qualified welding personnel identified as 049099. Perform Shielded Metal Arc Welding (SMAW) on West Tower lift 5 B/C corner joint. Joint identified, as WSD1-TL5-4B/F-21B, ZPMC QC Identified as Shao Hai Long, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3212-Tc-U4b-1.

### Repair Welding

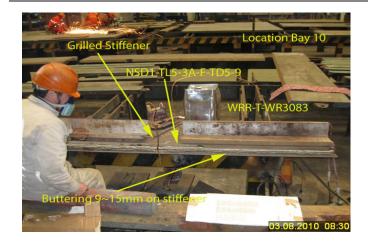
This QA Inspector observed ZPMC qualified welding personnel identified as 040733. Perform Shielded Metal Arc Welding (SMAW) on West Tower lift 4 (A/E corner joint). Joint identified, as WSTL4-2B/L-60A. ZPMC QC Identified as Zhao Mao Mao. With Temporary welding repair report WRR-T-WR2971, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-1G (1F)-Repair.

This QA Inspector observed ZPMC qualified welding personnel identified as 044560. Perform Submerged Arc Welding (SAW) on Face "c" plate. Joint identified P1850-1A, ZPMC QC Identified as Lijun. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2221-B-U3c-S-2.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.

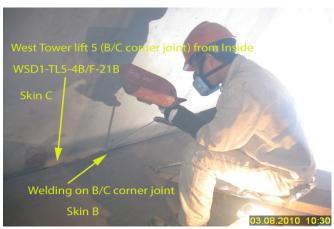
# WELDING INSPECTION REPORT

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# **Summary of Conversations:**

Only general conversation was held between QA and QC concerning this project.

#### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Skyler Guest phone: 15000422360, who represents the Office of Structural Materials for your project.

| Inspected By: | Gaikwad,Shailesh | Quality Assurance Inspector |
|---------------|------------------|-----------------------------|
| Reviewed By:  | Clifford,William | QA Reviewer                 |